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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|-------------------------------------|--|----------------------|---------------------|-------------------------|--|
| 10/517,936 | 12/13/2004 | Jin-Koo Chung | 1190860-991670 | 6886 | |
| 26379 | 7590 08/14/2006 | EXAMINER | | | |
| DLA PIPER RUDNICK GRAY CARY US, LLP | | | CRANE, SARA W | | |
| | 2000 UNIVERSITY AVENUE E. PALO ALTO, CA 94303-2248 | | ART UNIT | PAPER NUMBER | |
| | , | | 2811 | | |
| | | | | DATE MAILED: 08/14/2006 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | | |
|---|--|--|--|--|--|--|
| | 10/517,936 | CHUNG ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Sara W. Crane | 2811 | | | | |
| The MAILING DATE of this communicati Period for Reply | on appears on the cover sheet w | ith the correspondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL (- Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica. If NO period for reply is specified above, the maximum statutor. Failure to reply within the set or extended period for reply will, any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). | ING DATE OF THIS COMMUNICER 1.136(a). In no event, however, may a stion. y period will apply and will expire SIX (6) MON by statute, cause the application to become Al | CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 3) Since this application is in condition for a | ☑ This action is non-final. allowance except for formal mat | • | | | | |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposition of Claims | | | | | | |
| 4) ⊠ Claim(s) 1-13 is/are pending in the appli 4a) Of the above claim(s) is/are w 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-13 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction | vithdrawn from consideration. | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Ex 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by | accepted or b) objected to to the drawing(s) be held in abeyar correction is required if the drawing | nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d). | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-93) Information Disclosure Statement(s) (PTO-1449 or PTO | 948) Paper No(0/SB/08) 5) Notice of I | Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) | | | | |
| 3) M Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 13 Dec 2004 | 6) Other: | | | | | |

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 5 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 5, line 3, what is meant by "active pattern"? Is this active in the sense of an active device? In claim 9, what is meant by "overlap each other"? Does this mean that the CVD insulating film and the pixel electrode must each lie over the other? How could this be achieved?

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4 and 10-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawashima in view of Laxman et al.

Kawashima teaches an organic electroluminescent device having substrate 3, first electrode 5, insulating film 6, organic EL layer 7, and second electrode 8. The dielectric constant of the insulator is low enough to provide for a functioning device, and

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CVD is a preferred method of making the device layers [0067]. Alternatively, Laxman et al. teaches low dielectric constant SiOC thin films made by CVD (abstract), which would have been obvious for the Kawashima insulator, in order to obtain the advantages noted by Laxman et al. ([0007] and [0008]). Absent any showing of criticality, an insulator thickness as recited in claim 4, would have been obvious in order to provide for the insulating characteristics associated with a layer of such a thickness.

With respect to claim 10, the stripe electrodes are shown in figure 2 of Kawashima.

Claims 5-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirano in view of Laxman et al.

With respect to claim 5, the cover figure of Hirano shows a device having a substrate, thin film transistors 2 on the substrate, passivation layer 6, and an organic EL layer 13 [0022] overlying a lower, or pixel, electrode. The contact to the transistors is not specifically shown [0019]. It would have been obvious to form the insulation layer 12 of this device of low dielectric CVD material as taught by Laxman et al., to obtain the desired advantages noted in that reference. It would have been obvious to form electrode 14 of metal, to obtain conductivity.

With respect to claim 9, any such overlap dimension would be obvious in a device having other dimensions of commensurate size. (No other device dimensions appear to be recited in the claims.)

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (571) 272-1652.

The supervisor for Art Unit 2811, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sara W. Crane Primary Examiner

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